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	NAME		DATE	Second .				
	Module 4	Solving Problems Using Linear Equations of One Variable	inde	pendent				
	Lesson 2	Solving Consumer/Business Prob Using Equations of One Variable	lems pra	ctice				
				Accession				
	Solve.							
	1. Carlos earns	s \$17.50 per hour. How many hours did Carl	os work if he earned \$568.75?					
	2. A handyman did the han	n charges \$25 for a service call, plus \$30 dyman work if his total charge was \$92.50	per hour. How many hours)?					
	3. The sum of	two consecutive integers is 47. What are	the two integers?					
	4. The sum of three consecutive odd integers is -33 . What are the three integers?							
	5. A business does a con							
	6. A company donated \$2	donates 4% of its profit to charity. What w 2,020 to charity?	as the company's profit if it					
	Journal	n. All fills Carrier and Communities						
	1. A student r Explain her	represented three consecutive odd integers mistake.	s as $n, n + 1$, and $n + 3$.					
	 A student v wrote and solution, ar Employees 	solved the equation $x + x + 1 = 23$. The nd stated that 10 and 11 are the integers. at a clothing store get a 20% discount on	student got $x = 11$ as the Explain his mistake. their purchases. To calculate	2				
stQuest	what they what they what they what they what they what what where the owner what where the owner what they	will pay for a purchase, they can multiply they this method works.	ie regular price by 0.8.	1				
© 2003 Be	multiplying 5. A store use	the regular price by 1.06. Explain why this es a 100% markup on all its goods. What c	s method works. loes this mean?					

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Cumulative Review

Solve.

1. $3x - 4 = 17$	2. $2x + 9 = 15$
3. -13 = 11x + 9	4. $9 - 4x = 6$
5. $\frac{3}{7}x + 7 = 1$	6. $3 - 2x = -9 + 2x$
7 $y + y + y - 45$	8 $\frac{1}{(12x)} - 30$
7. $A + A + A = 4.3$	10. $2^{\lceil 12 \rangle / 2} = 50^{\lceil 12 \rangle / 2}$
9. $4x + 3(x - 2) = 8$	10. $25(x + 2) = 55x$

Calculator Problems Using the Percent Key

A business must send 3% of its employees to a seminar. How many employees does a company have if it sends 15 employees?

To solve the problem above using a scientific calculator use the following keystrokes.

1	5	÷	3	2nd	%	
Step 1:	press 1			Step 5: p	ress the 2n	d key
Step 2:	press 5			Step 6: p	ress the %	key
Step 3:	press ÷			Step 7: p	ress the $=$	key
Step 4:	press 3					
So, the	company ha	is 300 em	ployees.			

Use a scientific calculator to solve the following problems.

- Shontisha earns 6% commission selling cellular phones. Her commission last week was \$94.26. What was the amount of her sales?
- **3.** A company donates 2% of its yearly profit to charity. The company's yearly profit is \$64,000. What amount did the company donate to charity?
- 2. The original price of a CD is \$17.99. A store is having a CD sale, each CD is 25% off. What is the cost of a CD, excluding tax?
- **4.** Taylor used a 15% off coupon to buy a jacket, she paid \$59.50. What was the price of the jacket before the discount?

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Module 4 Lesson 2